IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1   1-29.   (Canceled)

1   1-52.   (Canceled)

1   53.   (New) A formatting template for printing an XML document, comprising an

2   XML Descriptor (XMD) associated with an XML data element of the XML document,

3   wherein the XMD is identified by an associated qualified tag having a concatenation of a

4   plurality of XML start tags representing start tags hierarchically traversed in the XML

5   document to reach the XML data element, the XMD providing formatting to content

6   associated with the XML data element.

1   54.   (New) The formatting template of claim 53, wherein the data map comprises

2   a chain of XML descriptors for formatting attributes if XML elements.

1   55.   (New) The formatting template of claim 53, wherein an XML descriptor that

2   does not have a matching qualified tag is skipped and a next XML descriptor matching a start

3   tag is used in formatting the XML data.

1   56.   (New) A printing system, comprising:

2   a spooler for receiving printable information from the print channel;

3   a print services facility for parsing an XML file; and

4   a printer for printing the print steam according to the formatting defined by the

5 formatting template;

6   wherein the formatting template includes an XML Descriptor (XMD)

7 associated with an XML data element of the XML document, wherein the XMD is identified

8 by an associated qualified tag having a concatenation of a plurality of XML start tags

9 representing start tags hierarchically traversed in the XML document to reach the XML data

10 element, the XMD providing formatting to content associated with the XML data element.

1   57.   (New) The formatting template of claim 56, wherein the data map comprises

2 a chain of XML descriptors for formatting attributes if XML elements.

1   58.   (New) The formatting template of claim 56, wherein the parser skips an XML

2 descriptor that does not have a matching qualified tag and uses a next XML descriptor having

3 a matching start tag to format the XML data.

1   59.   (New) The formatting template of claim 56 further comprising a buffer for

2 storing start tags in order as the XML file is parsed.

1   60.   (New) A method for printing XML documents directly using a formatting

2   template, comprising:

3   placing an XML document to be printed on a server spool;

4   parsing the XML document to identify start tags hierarchically traversed in the XML

5   document to reach an XML data element;

6   searching a data map comprising XML descriptors identified by an associated

7   qualified tag having a concatenation of a plurality of XML start tags until a qualified tag

8   associated with an XML descriptor matches the identified start tags hierarchically traversed

9   in the XML document to reach the XML data element;

10   formatting the XML data element according the XML descriptor associated with the

11   qualified tag having a concatenation of a plurality of XML start tags matching the identified

12   start tags hierarchically traversed in the XML document to reach the XML data element;

13   merging the XML element associated with the XML descriptor associated with the

14   qualified tag having a concatenation of a plurality of XML start tags matching the identified

15   start tags hierarchically traversed in the XML document to reach the XML data element to

16   produce a formatted print data stream; and

17   printing a document using the produced formatted print data stream.

1   61.   (New) The method of claim 60 further comprising skipping an XML

2   descriptor that does not have a matching qualified tag and using a next XML descriptor

3   matching a start tag to format the XML data.

1   62.   (New) An article of manufacture comprising a program storage medium

2   readable by a computer, the medium tangibly embodying one or more programs of

3   instructions executable by the computer to perform a method for printing XML files directly

4   using a formatting template, the method comprising:

5   placing an XML document to be printed on a server spool;

6   parsing the XML document to identify start tags hierarchically traversed in the XML

7   document to reach an XML data element;

8   searching a data map comprising XML descriptors identified by an associated

9   qualified tag having a concatenation of a plurality of XML start tags until a qualified tag

10   associated with an XML descriptor matches the identified start tags hierarchically traversed

11   in the XML document to reach the XML data element;

12   formatting the XML data element according the XML descriptor associated with the

13   qualified tag having a concatenation of a plurality of XML start tags matching the identified

14   start tags hierarchically traversed in the XML document to reach the XML data element;

15   merging the XML element associated with the XML descriptor associated with the

16   qualified tag having a concatenation of a plurality of XML start tags matching the identified

17   start tags hierarchically traversed in the XML document to reach the XML data element to

18   produce a formatted print data stream; and

19   printing a document using the produced formatted print data stream.

1   63.   (New) The article of manufacture of claim 41 further comprising skipping an

2   XML descriptor that does not have a matching qualified tag and using a next XML descriptor

3   matching a start tag to format the XML data.